

Recombinant Human KDM4A, GST-tagged

Cat. No. KDM4A-7031H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human KDM4A (1-886) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-886 aa
Description	KDM4A or lysine (K)-specific demethylase 4A is a member of the Jumonji domain 2 (JMJD2) family that encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. KDM4A functions in euchromatin to remove histone methylation marks that are associated with active transcription. KDM4A also act as a trimethylation-specific demethylase those converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~150 kDa
Purity	>90%
Applications	Western Blot

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Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	KDM4A lysine (K)-specific demethylase 4A [Homo sapiens]
Official Symbol	KDM4A
Synonyms	KDM4A; lysine (K)-specific demethylase 4A; JMJD2, JMJD2A, jumonji domain containing 2 , jumonji domain containing 2A; lysine-specific demethylase 4A; JHDM3A; jumonji C domain containing histone demethylase 3A; KIAA0677; jumonji domain containing 2; jumonji domain containing 2A; jumonji domain-containing protein 2A; jumonji C domain-containing histone demethylase 3A; jmjC domain-containing histone demethylation protein 3A; JMJD2; JMJD2A;
Gene ID	9682
mRNA Refseq	NM_014663
Protein Refseq	NP_055478
MIM	609764
UniProt ID	O75164
Chromosome Location	1p34.1

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Function

histone demethylase activity (H3-K36 specific); metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein binding; zinc ion binding;

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